

#2/

1651



TECH CENTER 160012800

JUL 10 2002

RECEIVED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/483,543B

DATE: 07/05/2002

TIME: 12:20:45

Input Set : A:\EP.txt

Output Set: N:\CRF3\07052002\I483543B.raw

ENTERED

```

4 <110> APPLICANT: Muir, Tom
5      Cotton, Graham
6      The Rockefeller University
8 <120> TITLE OF INVENTION: Multiple Sensor-Containing Polypeptides,
9      Methods of Preparation and Uses Thereof
11 <130> FILE REFERENCE: RU 453
13 <140> CURRENT APPLICATION NUMBER: 09/483,543B
14 <141> CURRENT FILING DATE: 2000-01-14
16 <160> NUMBER OF SEQ ID NOS: 10
18 <170> SOFTWARE: FastSEQ for Windows Version 3.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 8
23 <212> TYPE: PRT
24 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Cleavage Site for PreScission Protease
29 <400> SEQUENCE: 1
30   Leu Glu Val Leu Phe Gln Gly Pro
31     1             5
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 12
36 <212> TYPE: PRT
37 <213> ORGANISM: Artificial Sequence
39 <220> FEATURE:
40 <223> OTHER INFORMATION: Peptide Substrate
42 <400> SEQUENCE: 2
43   Glu Ala Ile Tyr Ala Ala Pro Phe Ala Lys Lys Lys
44     1             5             10
47 <210> SEQ ID NO: 3
48 <211> LENGTH: 64
49 <212> TYPE: DNA
50 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: Primer
55 <400> SEQUENCE: 3
56   aaaagaaaaa aaggcggccg ctcggatctg atcgaaggtc gttgtgcggg caacttcgac
57   tcgg
67 <210> SEQ ID NO: 4
68 <211> LENGTH: 40
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Primer

```

60
64

RAW SEQUENCE LISTING

DATE: 07/05/2002

PATENT APPLICATION: US/09/483,543B

TIME: 12:20:45

Input Set : A:\EP.txt

Output Set: N:\CRF3\07052002\I483543B.raw

```

75 <400> SEQUENCE: 4
76  gcaaactggc tcttccgcag ccgctgaagt cctcatcggg          40
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 18
81 <212> TYPE: PRT
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Xa-Cys-(Crk-II)-Intein-CBD Construct
87 <400> SEQUENCE: 5
88  Met Ala Ser Ser Arg Val Asp Gly Gly Arg Ser Asp Leu Ile Glu Gly
89    1             5             10             15
90  Arg Cys
93 <210> SEQ ID NO: 6
94 <211> LENGTH: 18
95 <212> TYPE: PRT
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Cys-F1-PS-Biotin Construct
101 <220> FEATURE:
102 <221> NAME/KEY: misc_feature
103 <222> LOCATION: 3
104 <223> OTHER INFORMATION: Xaa = Lys-[Dapa(F1)]
106 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <222> LOCATION: 17
109 <223> OTHER INFORMATION: Xaa = [Lys-(Biotin)]
111 <400> SEQUENCE: 6
W--> 112  Cys Gly Xaa Gly Leu Glu Val Leu Phe Gln Gly Pro Val Arg Lys Gly
113    1             5             10             15
W--> 114  Xaa Gly
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 11
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: High affinity ligand for the N-SH3 Domain of Crk
125 <400> SEQUENCE: 7
126  Pro Pro Pro Ala Leu Pro Pro Lys Arg Arg Arg
127    1             5             10
133 <210> SEQ ID NO: 8
134 <211> LENGTH: 318
135 <212> TYPE: PRT
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Protein Kinase Target
141 <220> FEATURE:
142 <221> NAME/KEY: misc_feature
143 <222> LOCATION: 311
144 <223> OTHER INFORMATION: Xaa = Lys-[Dapa(F1)]

```

RAW SEQUENCE LISTING

DATE: 07/05/2002

PATENT APPLICATION: US/09/483,543B

TIME: 12:20:45

Input Set : A:\EP.txt

Output Set: N:\CRF3\07052002\I483543B.raw

```

146 <400> SEQUENCE: 8
147 Lys Arg Gly Cys Ala Gly Asn Phe Asp Ser Glu Glu Arg Ser Ser Trp
148 1 5 10 15
149 Tyr Trp Gly Arg Leu Ser Arg Gln Glu Ala Val Ala Leu Leu Gln Gly
150 20 25 30
151 Gln Arg His Gly Val Phe Leu Val Arg Asp Ser Ser Thr Ser Pro Gly
152 35 40 45
153 Asp Tyr Val Leu Ser Val Ser Glu Asn Ser Arg Val Ser His Tyr Ile
154 50 55 60
155 Ile Asn Ser Ser Gly Pro Arg Pro Pro Val Pro Pro Ser Pro Ala Gln
156 65 70 75 80
157 Pro Pro Pro Gly Val Ser Pro Ser Arg Leu Arg Ile Gly Asp Gln Glu
158 85 90 95
159 Phe Asp Ser Leu Pro Ala Leu Leu Glu Phe Tyr Lys Ile His Tyr Leu
160 100 105 110
161 Asp Thr Thr Thr Leu Ile Glu Pro Val Ala Arg Ser Arg Gln Gly Ser
162 115 120 125
163 Gly Val Ile Leu Arg Gln Glu Glu Ala Glu Tyr Val Arg Ala Leu Phe
164 130 135 140
165 Asp Phe Asn Gly Asn Asp Glu Glu Asp Leu Pro Phe Lys Lys Gly Asp
166 145 150 155 160
167 Ile Leu Arg Ile Arg Asp Lys Pro Glu Glu Gln Trp Trp Asn Ala Glu
168 165 170 175
169 Asp Ser Glu Gly Lys Arg Gly Met Ile Pro Val Pro Tyr Val Glu Lys
170 180 185 190
171 Tyr Arg Pro Ala Ser Ala Ser Val Ser Ala Leu Ile Gly Gly Asn Gln
172 195 200 205
173 Glu Gly Ser His Pro Gln Pro Leu Gly Gly Pro Glu Pro Gly Pro Tyr
174 210 215 220
175 Ala Gln Pro Ser Val Asn Thr Pro Leu Pro Asn Leu Gln Asn Gly Pro
176 225 230 235 240
177 Ile Tyr Ala Arg Val Ile Gln Lys Arg Val Pro Asn Ala Tyr Asp Lys
178 245 250 255
179 Thr Ala Leu Ala Leu Glu Val Gly Glu Leu Val Lys Val Thr Lys Ile
180 260 265 270
181 Asn Val Ser Gly Gln Trp Glu Gly Glu Cys Asn Gly Lys Arg Gly His
182 275 280 285
183 Phe Pro Phe Thr His Val Arg Leu Leu Asp Gln Gln Asn Pro Asp Glu
184 290 295 300
W--> 185 Asp Phe Ser Gly Cys Gly Xaa Gly Leu Glu Val Leu Phe Gln
186 305 310 315
199 <210> SEQ ID NO: 9
200 <211> LENGTH: 326
201 <212> TYPE: PRT
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Recombinant Intermediate
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature

```

RAW SEQUENCE LISTING

DATE: 07/05/2002

PATENT APPLICATION: US/09/483,543B

TIME: 12:20:45

Input Set : A:\EP.txt

Output Set: N:\CRF3\07052002\I483543B.raw

```

209 <222> LOCATION: 311
210 <223> OTHER INFORMATION: Xaa = Lys-[Dapa(Fl)]
212 <220> FEATURE:
213 <221> NAME/KEY: misc_feature
214 <222> LOCATION: 325
215 <223> OTHER INFORMATION: Xaa = [Lys-(Biotin)]
217 <400> SEQUENCE: 9
218 Lys Arg Gly Cys Ala Gly Asn Phe Asp Ser Glu Glu Arg Ser Ser Trp
219 1 5 10 15
220 Tyr Trp Gly Arg Leu Ser Arg Gln Glu Ala Val Ala Leu Leu Gln Gly
221 20 25 30
222 Gln Arg His Gly Val Phe Leu Val Arg Asp Ser Ser Thr Ser Pro Gly
223 35 40 45
224 Asp Tyr Val Leu Ser Val Ser Glu Asn Ser Arg Val Ser His Tyr Ile
225 50 55 60
226 Ile Asn Ser Ser Gly Pro Arg Pro Pro Val Pro Ser Pro Ala Gln
227 65 70 75 80
228 Pro Pro Pro Gly Val Ser Pro Ser Arg Leu Arg Ile Gly Asp Gln Glu
229 85 90 95
230 Phe Asp Ser Leu Pro Ala Leu Leu Glu Phe Tyr Lys Ile His Tyr Leu
231 100 105 110
232 Asp Thr Thr Thr Leu Ile Glu Pro Val Ala Arg Ser Arg Gln Gly Ser
233 115 120 125
234 Gly Val Ile Leu Arg Gln Glu Glu Ala Glu Tyr Val Arg Ala Leu Phe
235 130 135 140
236 Asp Phe Asn Gly Asn Asp Glu Glu Asp Leu Pro Phe Lys Lys Gly Asp
237 145 150 155 160
238 Ile Leu Arg Ile Arg Asp Lys Pro Glu Glu Gln Trp Trp Asn Ala Glu
239 165 170 175
240 Asp Ser Glu Gly Lys Arg Gly Met Ile Pro Val Pro Tyr Val Glu Lys
241 180 185 190
242 Tyr Arg Pro Ala Ser Ala Ser Val Ser Ala Leu Ile Gly Gly Asn Gln
243 195 200 205
244 Glu Gly Ser His Pro Gln Pro Leu Gly Gly Pro Glu Pro Gly Pro Tyr
245 210 215 220
246 Ala Gln Pro Ser Val Asn Thr Pro Leu Pro Asn Leu Gln Asn Gly Pro
247 225 230 235 240
248 Ile Tyr Ala Arg Val Ile Gln Lys Arg Val Pro Asn Ala Tyr Asp Lys
249 245 250 255
250 Thr Ala Leu Ala Leu Glu Val Gly Glu Leu Val Lys Val Thr Lys Ile
251 260 265 270
252 Asn Val Ser Gly Gln Trp Glu Gly Glu Cys Asn Gly Lys Arg Gly His
253 275 280 285
254 Phe Pro Phe Thr His Val Arg Leu Leu Asp Gln Gln Asn Pro Asp Glu
255 290 295 300
W--> 256 Asp Phe Ser Gly Cys Gly Xaa Gly Leu Glu Val Leu Phe Gln Gly Pro
257 305 310 315 320
W--> 258 Val Arg Lys Gly Xaa Gly
259 325

```

RAW SEQUENCE LISTING

DATE: 07/05/2002

PATENT APPLICATION: US/09/483,543B

TIME: 12:20:45

Input Set : A:\EP.txt

Output Set: N:\CRF3\07052002\I483543B.raw

264 <210> SEQ ID NO: 10
265 <211> LENGTH: 5
266 <212> TYPE: PRT
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: Site for Sequential Ligation
272 <220> FEATURE:
273 <221> NAME/KEY: misc_feature
274 <222> LOCATION: 5
275 <223> OTHER INFORMATION: Xaa = Cys (Xa-Cys)
278 <400> SEQUENCE: 10
W--> 279 Ile Glu Gly Arg Xaa
280 1 5

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/05/2002
PATENT APPLICATION: US/09/483,543B TIME: 12:20:46

Input Set : A:\EP.txt
Output Set: N:\CRF3\07052002\I483543B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 3,17
Seq#:8; Xaa Pos. 311
Seq#:9; Xaa Pos. 311,325
Seq#:10; Xaa Pos. 5

VERIFICATION SUMMARY

DATE: 07/05/2002

PATENT APPLICATION: US/09/483,543B

TIME: 12:20:46

Input Set : A:\EP.txt

Output Set: N:\CRF3\07052002\I483543B.raw

L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:16
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:304
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:304
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:320
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0